

## CLAIMS

What is claimed is:

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- 1 1. A method comprising:
  - 2 extracting a first data from a display buffer, the first data generated by a
  - 3 first application and being associated with a user interface from the
  - 4 first application;
  - 5 recognizing a layout from the first data; and
  - 6 using the layout to create an overlay to display a second data generated by
  - 7 a second application, wherein there is no direct link between the first
  - 8 application and the second application.
- 1 2. The method of claim 1, wherein recognizing the layout comprises
  - 2 performing a pattern recognition operation on the first data to create the
  - 3 layout.
- 1 3. The method of claim 1, wherein using the layout to create the overlay
  - 2 comprises:  - 3 determining an overlay location on the layout to place the second data
  - 4 based on known information about the layout;
  - 5 generating the overlay of the layout;
  - 6 placing the second data in the overlay; and
  - 7 merging the overlay with the layout.



Year	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100
1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100	

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1 12. The machine-readable medium of claim 11, wherein the overlay location  
2 has a context consistent with the second data.

1 13. The machine-readable medium of claim 12, wherein the context is provided  
2 by the first application, and wherein a user interacts with the second  
3 application using the context.

1 14. The machine-readable medium of claim 9, further comprising:  
2 writing the overlay in the display buffer such that the second data is  
3 displayed at the overlay location without changing sections of the first  
4 data outside of the overlay location;  
5 displaying information in the display buffer; and  
6 interacting with the second application through the second data at the  
7 overlay location.

1 15. The machine-readable medium of claim 14, further comprising running the  
2 first application in the background while interacting with the second  
3 application.

1 16. The machine-readable medium of claim 9, wherein the first application  
2 runs independently from the second application.

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1 17. A computer system, comprising:  
2 a bus;





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- 1 26. The method of claim 25, wherein modifying data in the display buffer  
2 comprises:  
3 performing a pattern recognition operation on the data generated by the  
4 first application to create a layout; and  
5 forming an overlay with the layout and with predetermined information  
6 about a display corresponding to the user interface, the overlay used  
7 to determine placement of the data generated by the second  
8 application in the display.

1 28. The method of claim 25, wherein the first application runs in the  
2 background while the user interacts with the second application.

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1 29. A machine-readable medium providing instructions, which when executed  
2 by a set of one or more processors, cause said set of processors to perform  
3 the following:

4 modifying data in a display buffer that is generated by a first application  
5 with data generated by a second application, the first application  
6 running independently from the second application; and  
7 receiving input in response to user interactions with the second application  
8 through a user interface associated with the data generated by the first  
9 application, wherein the data generated by the second application is  
10 placed in a location in the user interface, wherein the location is  
11 contextually consistent with the data generated by the second  
12 application.

1 30. The machine-readable medium of claim 29, wherein modifying data in the  
2 display buffer comprises:

3 performing a pattern recognition operation on the data generated by the  
4 first application to create a layout; and

5 forming an overlay with the layout and with predetermined information  
6 about a display corresponding to the user interface, the overlay used  
7 to determine placement of the data generated by the second  
8 application in the display.

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1 31. The machine-readable medium of claim 30, wherein the layout comprises  
2 of grid cells corresponding to display areas in the user interface, and  
3 wherein the data generated by the second application is placed in the grid  
4 cells.

1 32. The machine-readable medium of claim 29, wherein the first application  
2 runs in the background while the user interacts with the second  
3 application.

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1 <sup>Sub B6</sup> 33. A computer system, comprising:  
2 a bus;  
3 a data storage device coupled to the bus; and  
4 a processor coupled to the data storage device, the processor operable  
5 to receive instructions which, when executed by the processor, cause  
6 the processor to perform a method comprising:  
7 modifying data in a display buffer that is generated by a first  
8 application with data generated by a second application, the first  
9 application running independently from the second application;  
10 and  
11 receiving input in response to user interactions with the second  
12 application through a user interface associated with the data  
13 generated by the first application, wherein the data generated by  
14 the second application is placed in a location in the user

15     §6     interface, wherein the location is contextually consistent with the  
16             data generated by the second application.

1     34.   The computer system of claim 33, wherein modifying data in the display  
2             buffer comprises:  
3             performing a pattern recognition operation on the data generated by the  
4             first application to create a layout; and  
5             forming an overlay with the layout and with predetermined information  
6             about a display corresponding to the user interface, the overlay used  
7             to determine placement of the data generated by the second  
8             application in the display.

1     35.   The computer system of claim 34, wherein the layout comprises of grid  
2             cells corresponding to display areas in the user interface, and wherein the  
3             data generated by the second application is placed in the grid cells.

1     36.   The computer system of claim 33, wherein the first application runs in the  
2             background while the user interacts with the second application.

Sub 37  
1     37.   A method comprising:  
2             reading raster data from a raster display buffer containing an image  
3             generated by a first application;  
4             performing a pattern recognition on the image to generate a pattern;  
5             applying predetermined information about the image with the pattern to  
6             determine a layout of the image;

